CINT2000 Result

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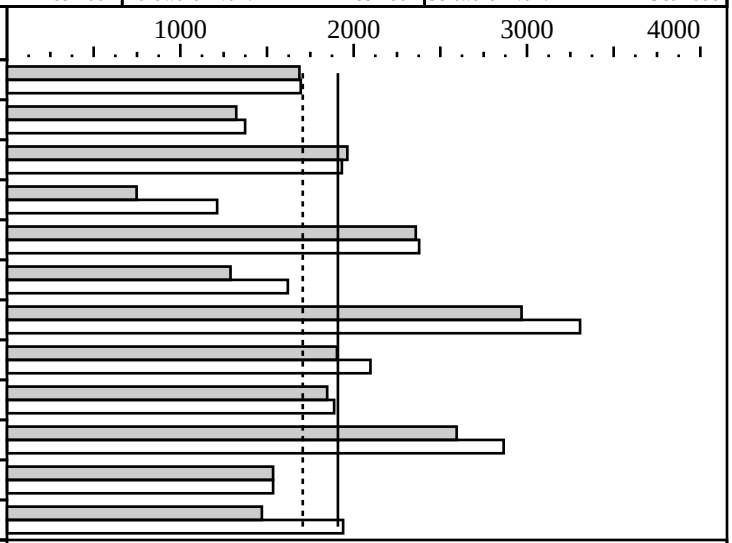
IBM Corporation
IBM System X 3655 (AMD Opteron 2220)

SPECint2000 = 1909

SPECint_base2000 = 1706

SPEC license #: 11 | Tested by: IBM Corporation | Test date: Feb-2007 | Hardware Avail: Feb-2007 | Software Avail: Oct-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	83.0	1687	82.6	1695
175.vpr	1400	106	1323	102	1374
176.gcc	1100	56.0	1964	56.9	1932
181.mcf	1800	241	748	148	1212
186.crafty	1000	42.4	2358	42.1	2378
197.parser	1800	140	1290	111	1620
252.eon	1300	43.8	2969	39.3	3306
253.perlbmk	1800	94.6	1904	85.8	2097
254.gap	1100	59.5	1847	58.3	1887
255.vortex	1900	73.2	2594	66.3	2865
256.bzip2	1500	97.7	1535	97.7	1535
300.twolf	3000	204	1470	155	1939



Hardware

CPU:	AMD Opteron 2220
CPU MHz:	2800
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 chips
Parallel:	No
Primary Cache:	64 KB I + 64 KB D on chip (per core)
Secondary Cache:	1 MB I+D on chip (per core)
L3 Cache:	N/A
Other Cache:	N/A
Memory:	16 GB (8x2 GB PC2-5300)
Disk Subsystem:	1x36 GB 15K SAS
Other Hardware:	

Software

Operating System:	SuSE Linux Enterprise Server 9 (x86_64) SP 3 SuSE kernel 2.6.5-7.244-default
Compiler:	PathScale EKOPath(TM) Compiler Suite, Release 2.5
File System:	Linux/ext2
System State:	Multi-user run level 3

Notes/Tuning Information

```
+FDO: PASS1= -fb_create fbdata  PASS2= -fb_opt fbdata
Base tuning for C programs:   -Ofast +FDO
Base tuning for C++ programs: -Ofast +FDO
Portability flags:
  186.crafty:  -DLINUX_i386
  252.eon:     -DHAS_ERRLIST -DSPEC_CPU2000_LP64
  253.perlbmk: -DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL
               -DSPEC_CPU2000_LP64
  254.gap:     -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO
               -DSYS_HAS_CALLOC_PROTO -DSPEC_CPU2000_LP64
  255.vortex:  -DSPEC_CPU2000_LP64
Peak tuning:
  164.gzip:    -O3 -ipa -WOPT:val=0 -OPT:unroll_size=0 +FDO
  175.vpr:     -O3 -ipa -m32 +FDO
  176.gcc:     -O3 -IPA:plimit=10000 -LNO:opt=0 -OPT:goto=off +FDO
  181.mcf:     -O3 -ipa -IPA:field_reorder=on -m32 +FDO
  186.crafty:  -Ofast -CG:local_fwd_sched=on -LNO:opt=0 -WOPT:val=0 +FDO
  197.parser:  -O3 -ipa -m32 -IPA:ctype=on +FDO
  252.eon:     -Ofast -CG:gcm=off:p2align_freq=1:prefetch=off -IPA:plimit=4000
               -OPT:treeheight=on -TENV:X=4:frame_pointer=off -fno-exceptions
```

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Notes/Tuning Information (Continued)

```
                -LNO:fu=10:full_unroll_outer=on -GRA:optimize_boundary=on +FDO
    253.perlbmk: -O2 -ipa -OPT:Ofast:transform_to_memlib=off
                -fno-math-errno -IPA:plimit=10000 +FDO
    254.gap:     -Ofast -IPA:min_hotness=5 -OPT:alias=disjoint -CG:movnti=1 +FDO
    255.vortex:  -Ofast -OPT:goto=off +FDO
    256.bzip2:   basepeak=true
    300.twolf:   -O2 -CG:gcm=off:p2align_freq=100000
                -OPT:Ofast:unroll_times_max=8:unroll_size=256:alias=disjoint
                -WOPT:mem_opnds=on -m32 +FDO
```